

An Optical Storage Carrier Player Cover-locking Mechanism and Method for Controlling the Cover-locking Mechanism

ABSTRACT

This invention relates to a optical storage carrier player cover-locking
5 mechanism and method, which provides a optical storage carrier player
cover that can actuate a locked state to prevent a optical storage carrier from
rotating as cover is being lifted up and a lifting-up state for putting or
removing a CD. This CD cover arranges: a driving element that connects
to the CD driving apparatus and makes it rotate, a controller that adjusts
10 rotation speed of the driving element, and a switch that can touches off the
controller to proceed a controlled motion with predetermined rotation speed.
By touching off the switch, the controller can detect the rotation speed of the
driving element. By comparing the detected rotation speed with a
predetermined speed in the controller, when rotation speed is higher than the
15 predetermined speed, the controller generates a signal to the driving element
to reduce the rotation speed of motor. And when rotation speed is lower
than the predetermined speed, a signal is generated to actuate a cover-lifting
motion to the CD cover that is then in an open state.